

- 20 -

**Abstract**

The present invention relates to a method for measurement of optical resp. electrical signal sequences and an eye diagram monitor for measurement and display of signal sequences with at least one threshold decision circuit 3, at least one storage device 4, and an analysis device 5.

With the eye diagram monitor in accordance with the present invention the generation of an eye diagram 1 is possible even at very high transmission data rates which is accomplished by at least one counter 6, a signal sequence S fed to an input 7 of the threshold decision circuit 3, an adjustable threshold value SW fed to the other input 8 of the threshold decision circuit 3, and the output 9 of the threshold decision circuit 3 connected with the input 10 of counter 6.